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(54) SURGICAL TISSUE TREATING DEVICE WITH LOCKING MECHANISM

(57) Abstract:

PROBLEM TO BE SOLVED: To ensure a safe and proper sequential usage of a surgical device by making the device include a feedback monitor for providing a signal indicating completion of tissue treatment and an electro-mechanical locking mechanism to unlock when tissue treatment is complete.

SOLUTION: A linear cutting-stapler 10 for endoscope operations comprising a housing 16 connected to a sheath 30 moving in lumen; and an end effector 15 having neck members 32, 34 extending from the distal end of the sheath 30 and being opposite to each other. The housing 16 includes a clamp trigger 12 for closing the neck members 32, 34; a switch 59 for introducing high-frequency energy; and an ejection trigger 14 for driving a cutting member in the sheath 30 via

a wedge. The neck members 32, 34 are released by pushing a button 60 and are closed again when they fit the tissue. After this closing, the cutting-stapling locking mechanism is unlocked when the high frequency switch 59 is operated to apply high frequency.

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